

43

10/524525
Rec'd PCT/PTC 11 FEB 2005
Express Mail No. EV425514585US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Martin Hausner
Serial No.: Unknown (National Phase of International Application
PCT/EP03/09052)
Filed: February 11, 2005 (Priority Date Claimed August 14,
2002)
Examiner: Unknown
Group Art Unit: Unknown
Confirmation No.: Unknown
Title: **METHOD FOR SELECTIVELY REMOVING MATERIAL
FROM THE SURFACE OF A SUBSTRATE, MASKING
MATERIAL FOR A WAFER, AND WAFER WITH MASKING
MATERIAL**
Our Ref. No.: BEET-09

Cincinnati, Ohio 45202

February 11, 2005

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of candor and good faith imposed by 37
C.F.R. §1.56 and means of complying therewith according to 37 C.F.R. §§1.97
and 1.98, the references listed on the attached Form PTO-1449 are called to the

attention of the United States Patent and Trademark Office in connection with the above-identified patent application. Because the requirement (37 C.F.R. §1.98(a)(2)(i)) for submitting copies of U.S. patents and published applications has been waived, copies of only the foreign cited references and/or other documents are enclosed herewith.


No representation is made that the cited art is the only art or that the cited art represents the best art.

The Examiner is urged to consider all of the cited documents and to make an independent evaluation of the teachings and materiality of each.

No fees are believed to be due. However, if any additional fees are necessary to complete this communication, please apply them to Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

BY 
David H. Brinkman
Reg. No. 40,532

2700 Carew Tower
441 Vine Street
Cincinnati, OH 45202
(513) 241-2324 - Voice
(513) 421-7269 - Facsimile

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY.CKET NO. BEET/09		EXPRESS MAIL NO. 10/524525							
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Martin Hausner									
				FILING DATE February 11, 2005		GROUP Unknown							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER				ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	A.A	6	0	7	4	9	4	6	06/2000	Ouellet et al.	438	689	02/1997
	A.B	6	4	5	8	6	1	5	10/2002	Fedder et al.	438	50	09/1999
	A.C												
	A.D												
	A.E												
	A.F												
	A.G												
	A.H												
	A.I												
	A.J												
	A.K												
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS													
		DOCUMENT NUMBER				PUBLICATION DATE		COUNTRY OR PATENT OFFICE		CLASS	SUBCLASS	TRANSLATION (YES/NO)	
	A.L	DE 196 41 288 A1				04/1998		Germany		C23F	4/00	No	
	A.M	DE 197 36 370 C2				12/2001		Germany		H01L	21/3065	No	
	A.N	DE 199 00 179 C1				02/2000		Germany		C23F	4/00	No	
	A.O	DE 199 27 806 A1				01/2001		Germany		H01L	21/3065	No	
	A.P	DE 44 20 962 C2				09/1998		Germany		H01L	21/308	No	
	A.Q	JP 05021395 A				01/1993		Japan		H01L	21/302	Abstract Only	
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)													
	A.R	Ayon et al., <u>Anisotropic silicon trenches 300-500 um deep employing time multiplexed deep etching (TMDE)</u> , Sensors and Actuators A, Vol. 91, 2001, pp. 381-385											
	A.S	Database WPI, <u>A method of through-etching substrate is provided to efficiently perform a cooling processing of a substrate and to improve a profile around a penetrated hole by using a metal material</u> , Section Ch, Week 200278, Derwent Publications Ltd., London, GB, Class L03, AN 2002-720751 (1 page)											
	A.T	Dijkstra et al., <u>Can SEA (Semiconductor Equipment Assessment) also deliver for MEMS?</u> , Horological Journal, Ashford, GB, Vol. 556, No. 302, 2001, pp. 684-690											
EXAMINER						DATE CONSIDERED							
EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance <u>and</u> not considered. Include a copy of this form with next communication to applicant.													

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY.CKET NO.
BEET/09EXPRESS MAIL NO.
EV425514585USINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Martin HausnerFILING DATE
February 11, 2005GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B.A						
	B.B						
	B.C						
	B.D						
	B.E						
	B.F						
	B.G						
	B.H						
	B.I						
	B.J						
	B.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	B.L	JP 05302182 A	11/1993	Japan	C23F	4/00	Abstract Only
	B.M	JP 07130751 A	05/1995	Japan	H01L	21/3213	Abstract Only
	B.N	JP 63076437 A	04/1988	Japan	H01L	21/302	Abstract Only
	B.O	WO 01/47005 A1	06/2001	WIPO	H01L	21/308	Yes
	B.P	WO 01/O6539 A1	01/2001	WIPO	H01J	37/32	No
	B.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	B.R	IBM Corp., <u>IBM Technical Disclosure Bulletin</u> , Vol. 34, No. 5, October 1991, pp. 368-370
	B.S	EPO, <u>International Search Report</u> , PCT/EP03/09052, May 18, 2004 (14 pages)
	B.T	Kong et al., <u>Reactive Ion Etching of SiC Using C2F6/02 Inductively Coupled Plasma</u> , Journal of Electronic Materials, Vol. 31, No. 3, March 2002, pp. 209-213

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY.CKET NO.
BEET/09EXPRESS MAIL NO.
E74755458506

107524525

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Martin HausnerFILING DATE
February 11, 2005GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	C.A						
	C.B						
	C.C						
	C.D						
	C.E						
	C.F						
	C.G						
	C.H						
	C.I						
	C.J						
	C.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	C.L						
	C.M						
	C.N						
	C.O						
	C.P						
	C.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C.R	A. J. Perry and R. W. Boswell, <u>Fast anisotropic etching of silicon in an inductively coupled plasma reactor</u> , Applied Physics Letters, American Institute of Physics, New York, Vol. 55, No. 2, July 10, 1989, pp. 148-150
C.S	Rakhshandehroo et al., <u>Dry etching of Si field emitters and high aspect ratio resonators using an inductively coupled plasma source</u> , Journal of Vacuum Science and Technology: Part B, American Institute of Physics, New York, Vol. 16, No. 5, Sept./Oct. 1998, pp. 2849-2854
C.T	Song et al., <u>Method Of Through-Etching Substrate</u> , United States Patent Application Publication No. 2003/0162402A1, Publication Date of August 28, 2003 (14 pages)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY.CKET NO.
BEET/09

EXPRESS MAIL NO.
E142351458US

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Martin Hausner

FILING DATE
February 11, 2005

GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	D.A						
	D.B						
	D.C						
	D.D						
	D.E						
	D.F						
	D.G						
	D.H						
	D.I						
	D.J						
	D.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	D.L					
	D.M					
	D.N					
	D.O					
	D.P					
	D.Q					

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

D.R	Tanaka et al., <u>Deep reactive ion etching of silicon carbide</u> , Journal of Vacuum Science and Technology B, Vol. 19, No. 6, Nov./Dec. 2001, pp. 2173-2176
D.S	Tian et al., <u>Comparison of Cl₂ and F-based dry etching for high aspect ratio Si microstructures etched with an inductively coupled plasma source</u> , Journal of Vacuum Science & Technology B, Vol. 18, No. 4, July/August 2000, pp. 1890-1896
D.T	Jason W. Weigold, <u>Design and Fabrication of Submicrometer, Single Crystal Si Accelerometer</u> , Journal of Microelectromechanical Systems, IEEE Inc., New York, Vol. 10, No. 4, December 2001, pp. 518-524

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY.CKET NO.
BEET/09EXPRESS MAIL NO.
EV425514585USINFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Martin Hausner

10/524525

(Use several sheets if necessary)

(37 CFR 1.98(b))

FILING DATE
February 11, 2005GROUP
Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	E.A						
	E.B						
	E.C						
	E.D						
	E.E						
	E.F						
	E.G						
	E.H						
	E.I						
	E.J						
	E.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	E.L						
	E.M						
	E.N						
	E.O						
	E.P						
	E.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	E.R	Xiao et al., <u>Silicon micro-accelerometer with mg resolution, high linearity and large frequency bandwidth fabricated with two mask bulk process</u> , Sensors and Actuators A, Vol. 77, 1999, pp. 113-119
	E.S	
	E.T	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.